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Cont translational initiation region functional in said dicotyledonous plant cells, (2) a first structural gene coding for a mammalian peptide, and (3) a first termination region, whereby said dicotyledonous plant cells express said first structural gene.

55. (Amended) The dicotyledonous plant cells according to claim 72, wherein said integrated sequence further comprises a second expression cassette having as operatively linked components in the direction of transcription (1) a second transcriptional and translational initiation region functional in said dicotyledonous plant cells, (2) a second structural gene coding for a second peptide which allows for selection of plant cells expressing said second peptide, and (3) a second termination region.

C Please add the following new claims. }

C4 71. (New) The plant matter according to claim 45, wherein said dicotyledonous plant cells express the mammalian peptide linked to a transit peptide.

72. (New) The dicotyledonous plant cells of claim 54, wherein said dicotyledonous plant cells have an integrated sequence.

73. (New) The dicotyledonous plant cells according to claim 54, wherein said first expression cassette further comprises (4) a nucleic acid sequence encoding a transit peptide.

Remarks

By the present amendment, non-elected claims 62-70 have been cancelled without prejudice to or disclaimer of the underlying subject matter. Claims 45-47, 49 and 54-55 have been amended. Claims 71-73 have been added. Following entry of the foregoing amendments, claims 45-61 and 71-73 are pending in the present application. Support for the foregoing amendments can be found in the specification, for example, at page 3, lines 17-37, and in the original claims. No new matter enters by way of these amendments.

1. The Restriction Requirement

Applicants acknowledge the finality of the restriction requirement but maintain their traversal. To facilitate prosecution, however, Applicants have removed the non-elected claims from the application.

Clean Copy of Pending Claims

45. (Amended) Plant matter comprising dicotyledonous plant cells that express a mammalian peptide.

46. (Amended) The plant matter according to claim 45, wherein said dicotyledonous plant cells are seed cells.

47. (Amended) The plant matter according to claim 45, wherein said dicotyledonous plant cells are rapeseed cells.

48. (Reiterated) The plant matter according to claim 45, wherein said mammalian peptide is a mature mammalian peptide.

49. (Amended) The plant matter according to claim 45, wherein said dicotyledonous plant cells are tobacco plant cells.

50. (Reiterated) The plant matter according to claim 45, wherein said mammalian peptide is interferon.

51. (Reiterated) The plant matter according to claim 45, wherein said plant matter is edible.

52. (Reiterated) The plant matter according to claim 51, wherein said mammalian peptide has a physiological effect upon ingestion by a mammal.

53. (Reiterated) The plant matter according to claim 52, wherein said physiological effect is regulation of digestive function.

54. (Amended) Dicotyledonous plant cells comprising: a first expression cassette having as operatively linked components in the direction of transcription (1) a first transcriptional and translational initiation region functional in said dicotyledonous plant cells, (2) a first structural gene coding for a mammalian peptide, and (3) a first termination region, whereby said dicotyledonous plant cells express said first structural gene.

55. (Amended) The dicotyledonous plant cells according to claim 72, wherein said integrated sequence further comprises a second expression cassette having as operatively linked components in the direction of transcription (1) a second transcriptional and translational initiation

region functional in said dicotyledonous plant cells, (2) a second structural gene coding for a second peptide which allows for selection of plant cells expressing said second peptide, and (3) a second termination region.

56. (Reiterated) The dicotyledonous plant cells according to claim 54, wherein said plant cells are tobacco plant cells.

57. (Reiterated) The dicotyledonous plant cells according to claim 54, wherein said plant cells are seed cells.

58. (Reiterated) The dicotyledonous plant cells according to claim 54, wherein said plant cells are rapeseed cells.

59. (Reiterated) The dicotyledonous plant cells according to claim 54, wherein said first expression cassette further comprises (4) a T-DNA boundary.

60. (Reiterated) The dicotyledonous plant cells according to claim 54, wherein said first transcriptional and translational initiation region is inducible.

61. (Reiterated) The dicotyledonous plant cells according to claim 54, wherein said mammalian peptide is an interferon.

71. (New) The plant matter according to claim 45, wherein said dicotyledonous plant cells express the mammalian peptide linked to a transit peptide.

72. (New) The dicotyledonous plant cells of claim 54, wherein said dicotyledonous plant cells have an integrated sequence.

73. (New) The dicotyledonous plant cells according to claim 54, wherein said first expression cassette further comprises (4) a nucleic acid sequence encoding a transit peptide.